

What is Claimed:

1. In a wireless communication system, the communication system providing communication service to a mobile station, wherein the mobile station is in communication with a base station via a reverse link, a method for enabling discontinuous transmission feature on the mobile station, the method comprising:

controlling transmission of mobile information via a first communication resource of the reverse link in response to a trigger event; and

transmitting mobile information to the base station via a second communication resource of the reverse link, the second communication resource being operable for discontinuous transmission.

2. The method of claim 1, wherein controlling transmission of mobile information via a first communication resource of the reverse link in response to a trigger event comprises controlling transmission of mobile information via a first communication resource of the reverse link in response to one of a user-selectable input, a call setup of a telephone number, a busy tone associated with a dialed telephone number, and a voice input.

3. The method of claim 1, wherein controlling transmission of mobile information via a first communication resource of the reverse link in response to a trigger event comprises terminating transmission of mobile information via the first communication resource of the reverse link in response to a trigger event.

4. The method of claim 1, wherein controlling transmission of mobile information via a first communication resource of the reverse link in response to a trigger event comprises terminating transmission of mobile information via a reverse fundamental channel of the reverse link in response to a trigger event.

5. The method of claim 1, wherein controlling transmission of mobile information via a first communication resource of the reverse link in response to a trigger event comprises transferring transmission of mobile information via a first communication resource over to a second communication resource of the reverse link in response to a trigger event.

6. The method of claim 1, wherein controlling transmission of mobile information via a first communication resource of the reverse link in response to a trigger event comprises transferring transmission of mobile information via a reverse fundamental channel over to a reverse dedicated control channel of the reverse link in response to a trigger event.

7. The method of claim 1, wherein transmitting mobile information to the base station via a second communication resource of the reverse link comprises transmitting control information to the base station via a second communication resource of the reverse link.

8. The method of claim 1, wherein transmitting mobile information to the base station via a second communication resource of the reverse link comprises transmitting one of an encoded dual-tone multiple frequency (DTMF) message associated with a DTMF tone and a pilot strength measurement to the base station via a second communication resource of the reverse link.

9. The method of claim 1, wherein transmitting mobile information to the base station via a second communication resource of the reverse link comprises transmitting one of an encoded dual-tone multiple frequency (DTMF) message associated with a DTMF tone and a pilot strength measurement to the base station via a reverse dedicated control channel of the reverse link.

10. The method of claim 1, wherein the communication system comprises a code division multiple access (CDMA) based communication system.

11. In a wireless communication system, the communication system providing communication service to a mobile station, wherein the mobile station is in communication with a base station via a reverse link, an apparatus for enabling discontinuous transmission feature on the mobile station, the apparatus comprising:

- a user input device;
- a transmitting unit being operable to transmit mobile information via the reverse link; and
- a controller operatively coupled to the user input device and the transmitting unit, the controller comprising a processor and a memory operatively coupled to the processor,
 - the controller being programmed to terminate transmission of mobile information via a first communication resource of the reverse link in response to a trigger event, and
 - the controller being programmed to transmit mobile information to the base station via a second communication resource of the reverse link, the second communication resource being operable for discontinuous transmission.

12. The apparatus of claim 10, wherein the user-input device comprises a numeric keypad, an alphanumeric keypad, and a touch-sensitive display.

13. The apparatus of claim 10, wherein the trigger event comprises one of a user-selectable input, dialing of a particular telephone number, a busy tone associated with a telephone number, and a voice input.

14. The apparatus of claim 10, wherein the first communication resource comprises one of a reverse fundamental channel and a reverse traffic channel.

15. The apparatus of claim 10, wherein the second communication resource comprises a reverse dedicated control channel.

16. The apparatus of claim 10, wherein the mobile information comprises one of control information and traffic information.

17. The apparatus of claim 16, wherein the control information comprises one of an encoded dual-tone multiple frequency (DTMF) message associated with a DTMF tone and a pilot strength measurement.

18. The apparatus of claim 10, wherein the apparatus operates in accordance with a code division multiple access (CDMA) protocol.

19. In a wireless communication system, the communication system for providing communication service for a mobile station, wherein the mobile station is in communication with a base station via a reverse link, and wherein a processor operates in accordance with a computer program embodied on a computer-readable medium for enabling discontinuous transmission on the mobile station, the computer program comprising:

a first routine that directs the processor to control transmission of mobile information via a first communication resource of the reverse link in response to a trigger event; and

a second routine that directs the processor to transmit mobile information to the base station via a second communication resource of the reverse link, the second communication resource being operable for discontinuous transmission.

20. The computer program of claim 19, wherein the first routine comprises a routine that directs the processor to control transmission of mobile information via a first communication resource of the reverse link in response to one of a user-selectable input, a call setup of a telephone number, a busy tone associated with a dialed telephone number, and a voice input.

21. The computer program of claim 19, wherein the first routine comprises a routine that directs the processor to terminate transmission of mobile information via the first communication resource of the reverse link in response to a trigger event.

22. The computer program of claim 19, wherein the first routine comprises a routine that directs the processor to terminate transmission of mobile information via a reverse fundamental channel of the reverse link in response to a trigger event.

23. The computer program of claim 19, wherein the first routine comprises a routine that directs the processor to transfer transmission of mobile information via a first communication resource over to a second communication resource of the reverse link in response to a trigger event.

24. The computer program of claim 19, wherein the second routine comprises a routine that directs the processor to transfer transmission of mobile information via a reverse fundamental channel over to a reverse dedicated control channel of the reverse link in response to a trigger event.

25. The computer program of claim 19, wherein the second routine comprises a routine that directs the processor to transmit control information to the base station via a second communication resource of the reverse link.

26. The computer program of claim 19, wherein the second routine comprises a routine that directs the processor to transmitting one of an encoded dual-tone multiple frequency (DTMF) message associated with a DTMF tone and a pilot strength measurement to the base station via a second communication resource of the reverse link.

27. The computer program of claim 19, wherein the second routine comprises a routine that directs the processor to transmitting one of an encoded dual-tone multiple frequency (DTMF) message associated with a DTMF tone and a pilot strength measurement to the base station via a reverse dedicated control channel of the reverse link.

28. The computer program of claim 19, wherein the computer program operates in accordance with a code division multiple access (CDMA) protocol.

29. The computer program of claim 19, wherein the medium is one of paper, a programmable gate array, application specific integrated circuit, erasable programmable read only memory, read only memory, random access memory, magnetic media, and optical media.

30. In a wireless communication system, the communication system providing communication service to a mobile station, wherein the mobile station is in communication with a base station via a reverse link, the mobile station having a discontinuous transmission feature, the mobile station comprising:

- a user input device;
- a transmitting unit being operable to transmit mobile information via the reverse link; and
- a controller operatively coupled to the user input device and the transmitting unit, the controller comprising a processor and a memory operatively coupled to the processor,
 - the controller being programmed to terminate transmission of mobile information via a first communication resource of the reverse link in response to a trigger event, and
 - the controller being programmed to transmit mobile information to the base station via a second communication resource of the reverse link, the second communication resource being operable for discontinuous transmission.

31. The mobile station of claim 30, wherein the user-input device comprises a numeric keypad, an alphanumeric keypad, and a touch-sensitive display.

32. The mobile station of claim 30, wherein the trigger event comprises one of a user-selectable input, dialing of a particular telephone number, a busy tone associated with a telephone number, and a voice input.

33. The mobile station of claim 30, wherein the first communication resource comprises one of a reverse fundamental channel and a reverse traffic channel.

34. The mobile station of claim 30, wherein the second communication resource comprises a reverse dedicated control channel.

35. The mobile station of claim 30, wherein the mobile information comprises one of control information and traffic information.

36. The mobile station of claim 35, wherein the control information comprises one of an encoded dual-tone multiple frequency (DTMF) message associated with a DTMF tone and a pilot strength measurement.

37. The mobile station of claim 30, wherein the apparatus operates in accordance with a code division multiple access (CDMA) protocol.